UNIVERSAL TRANSMITTER DOOR / WINDOW CONTACT WL 72C WL 72M

RISCO GROUP

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FCC Note (Valid for US version):
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: JE4RWT71X433
This equipment has been tested and found to comply with the limits for aClass B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
a) Reorient or relocate the receiving antenna.
b) Increase the separation between the equipment and receiver.
c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
d) Consult the dealer or an experienced radio/TV technician.

FCC Warning
The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

UL Remark:
Only 433Mhz units are UL Listed.
MUST BE INSTALLED IN ACCORDANCE WITH NFPA70, LOCAL AUTHORITIES HAVING JURISDICTATON (AHJ'S), AND ALL LOCAL CODES.

RTTE Compliance Statement (European version):
Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For the CE Declaration of Conformity please referto our website: www.riscogroup.com.

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ENGLISH

1. GENERAL DESCRIPTION

The transmitter is a supervised general purpose transmitter that can be connected to magnetic contacts (door/window protection) or to other sensors.
It operates together with RISCO Group ProSYS programmable receivers (FW V1.28) and control panels (FW V7.54) and is powered by a standard 3-volt lithium battery. For UL compliance, only connect to UL Listed compatible burglar alarm initiating devices.

MAIN FEATURES

- Operates up to 1000 ft. (300m) range* (Line Of Sight).
- RF high / low power
- Uses one of more than 16 million pseudo-randomy selected preset code addresses for setup.
- Microprossesor design.
- Extended battery life (up to five years).
- Fully supervised.
- Hold On/Off.
- Selective response time:
  Fast - for shock sensors,
  Slow - for magnetic switches, etc.
- Selective wired input (minimum 22 AWG wire) - N.C. or N.O.
- Back & Cover tamper protection.

* Not evaluated by UL.

2. OPERATIONAL MODES

NORMAL: The unit transmits an ALARM MESSAGE when it is triggered; when restored, it transmits a RESTORAL MESSAGE. Only one ALARM MESSAGE is transmitted in any 2.5 minutes time slot.

Note: Extra restoral message can be generated by reopening and closing the inputs.

WRITE: A Write message will be transmitted by pressing both tamper buttons (back and cover) for at least 3 seconds.

Note: The unit sends a supervisory message indicating the input state and battery condition.

Note: At installation or replacement, perform a Communication Check with the reciever to verify proper operation.

3. LED INDICATION

After each detection, the LED turns ON momentarily.
On Low Battery condition - the LED will blink during each transmission.

4. DIPSWITCH SETTINGS

The transmitter has 8 dipswitches:
1: Not used (OFF position)
2: Used to disable back tamper
ON: Back tamper disabled (only cover tamper works)
OFF*: Back tamper enabled (both cover and back tamper works).
3: Supervision Transmission
ON: Every 65 minutes
OFF*: Every 15 minutes
4: Used to determine the internal reed switch.
ON: Disable
OFF*: Enable
5: Used to determine the contact mode.
ON: Normally Closed (NC)
OFF*: Normally Open (NO)
6: Used to determine the response time
ON: Slow-500 ms (For operation with magnetic contacts, etc.)
OFF*: Fast-10 ms (For operation with a shock sensor
7: Used to determine the HOLD status of the transmitter.
ON: There will be 2.5 minutes dead time between the alarm detection transmissions.
(Restore messages will be sent immediately).

Note: Only one alarm message is transmitted in any 2.5 minute period.

OFF*/:** No dead time between alarm detection transmissions (the unit transmits after each detection).

Note: in both HOLD status the following occurs:
1. Disconecting the detector's input terminal will send an alarm after 500 ms.
2. Reopening and closing the detector inputs will generate an extra alarm and restore message.

8: Used to determine the RF transmission power.
ON**: RF low power (when the transmitter is close to the receiver).
OFF*: RF high power

* Factory Default **Required for UL compliance

5. FRONT COVER REMOVAL (Fig. 1)

6. TRANSMITTER / RECEIVER COMMUNICATION SETUP

The transmitter must identify itself to the system's receiver by writing its coded message into the receiver's address memory. This is accomplished by performing the following steps:
a. Set the reciever to Write Mode.
b. Remove the battery from the insulation material (Fig. 2). Send a Write message pressing both tamper buttons (back and cover) for at least 3 seconds. Verify that the transmitter has been identified by the receiver.
c. Set the receiver to Normal Mode.

Note: If for any reason it is necessary to re-send a write message, press both of the tamper buttons (back and cover) for at least 3 seconds.

For more information please refer to WL receiver manual 5IN128EW D.

7. SELECTION OF INSTALLATION LOCATION

a. Select a location best suited for communication quality and near the intended wired detector (for switched sensor). Place the unit at the highest possible position.
b. Temporarily attach the unit to this point using two sided adhesive tape.
c. Generate an Alarm signal (by momentarily opening or closing the input terminals) and verify that the receiver has received the signal. If the alarm signal is not detected, reposition the transmitter and try again.

Note: Test the unit once a week by generating an alarm signal for the contact and the wired detector..

8. FINAL MOUNTING

Separate the back part of the transmitter (Fig. 3), and mount all the parts in place (Fig. 4).

Note: The mark on the magnet's plastic case should be opposite the mark on the transmitter's case (Fig. 5). The spacing should be 1/8 inch (3.2 mm), approximately the width of a screwdriver with a 1/8 inch blade.

Note: Use hardware suitable to the desired mounting surface.

If relevant, connect the sensor to the input terminals.

Note: Connecting external contacts
You can connect more than one external detector with NC or NO contacts to this radio Opening detector. The device must be within three feet (1m) of the transmitter without intervening barriers.

REPLACING THE BATTERY

1. Remove the WL T72 front cover.
2. Remove the old battery and place a new one instead.
3. Pay attention to the polarity of the battery.
4. To close, reattach the front cover to its place.

Caution: The battery used in this device may present a fire,explosion or chemical burn hazard if mistreated, not used incompliance with all manufacturer's specifications or replaced with an alternate. Replace with 3V lithium batteryonly. See Specifications for battery part numbers. Do notrecharge, disassemble, heat above 100C (212F) or dispose ofin fire. Dispose of used battery promptly. Keep away from children.

TROUBLE SHOOTING

Problem	Probable cause	Remedy
LED will not light	**Battery misplaced**	**Check battery polarity**
WL T72 is not learned into the receiver	**RF noise or out of range**	**Resend write message or reallocate detector**
Supervision Loss indication in the panel	**This device has lost contact with the control panel**	**Enroll the Wl T72 again into the system**
WL T72 LED flashed during transmission	**Low battery indication**	**Replace battery**

FRANÇAIS

1. DESCRIPTION GENERALE

Le T72 est un émetteur universel pouvant être relié à des contacts magnétiques (pour la protection de portes/ fenêtres) ou autres détecteurs.
Alimenté par une pile lithium de 3 volts, il fonctionne avec les récepteurs programmables de RISCO Group.

CARACTERISTIQUES DU T72:

- Portée de 300 m (en extérieur), (Line Of Sight).
- Haute / faible puissance RF
- Adressage automatique (Il sélectionne directement un code parmi les plus de 16 millions préréglés en usine - donc pas d'interrupteur à DRB),
- Conçu avec microprocesseur.
- Pile très longue durée
- Entièrement sous contrôle.
- Maintient la position marche/arrêt (ON/OFF).
- Vitesse de détection réglable:
  Rapide - pour les détecteurs de chocs,
  Lente - pour les contacts magnétiques, etc.
- Entrée modulable - NC ou NO.
- Autoprotection arrière et frontale.

2. MODOS DE FONCTIONNEMENT

NORMAL: le T72 émet un « signal d'alarme » lorsqu'il est déclenché, et un « message de remise en service » lorsque la situation est rétablie. Un seul message d'alarme est émis par intervalle de 2min.30.

Remarque: d'autres messages de remise en service peuvent être générés par le fait de rouvrir et de refermer les entrées.

ECRITURE ("WRITE"): tout message en écriture sera transmis en appuyant simultanément sur les touches d'autoprotection (arrière et frontale) pendant au moins 3 secondes.

Remarque: l'appareil envoie un message de surveillance pour indiquer le statut des entées et l'état de la pile.

Remarque: lors de l'installation ou du remplacement de la pile, effectuez un test de communication avec le récepteur pour vérifier le bon fonctionnement de l'appareil.

3. AFFICHAGE A DIODES LED:

Après chaque détection, la diode électroluminescente LED s'allume momentanément. Lorsque les piles s'affaiblissent - la diode clignote pendant chaque transmission.

4. PARAMETRAGE DES COMMUTATEURS DIP

Le transmetteur dispose de 8 commutateurs DIP :
1: Inutilisés (position OFF - Arrêt)
2: Utilisé pour désactiver le sabotage arrière
ON: Sabotage arrière désactivé (seulement le sabotage avant est opérationnel)
OFF*: Sabotage arrière opérationnel (sabotage avant et arrière sont opérationnels)
3: Transmission de la surveillance
ON: toutes les 65 minutes
OFF*: toutes les 15 minutes
4: Sert à déterminer le mode du commutateur du contact magnetique.
ON: Désactivé
OFF*: Activé
5: Sert à déterminer le mode de contact.
ON: Normalement fermé (NC)
OFF*: Normalement ouvert (NO)
6: Sert à déterminer le temps de réaction
ON: Lent (Slow) - 500 ms (en fonctionnement avec des contacts magnétiques, etc.)
OFF*: Rapide (Fast) - 10 ms (en fonctionnement avec détecteur de chocs)
7: Sert à déterminer l'état de MAINTIEN du transmetteur.
ON: Un temps mort de 2 min. 30 s'écoulera entre les détections d'alarme transmises (Les messages de remise en service seront envoyés immédiatement).

Remarque : Un seul message d'alarme est émis par intervalle de 2 min. 30.

OFF*: Pas de temps mort entre les détections d'alarme transmises (l'appareil émet après chaque détection).

Remarque : quel que soit l'état de MAINTIEN sélectionné, les réactions suivantes se produisent:
1. La déconnection du lecteur d'entrée du détecteur déclenche une alarme après 500 ms.
2. La réouverture et la fermeture des entrées du détecteur déclenchent une autre alarme et rétablissent les messages.

8: Sert à déterminer la puissance de transmission RF.
ON: faible puissance RF (quand le transmetteur est situé près du récepteur).
OFF*: haute puissance RF

* Par défaut

5. RETRAIT DU COUVERCLE FRONTAL (Fig. 1)

6. MISE EN COMMUNICATION DE l'EMETTEUR / RECEPTEUR

Le récepteur du système doit identifier le T72 par le biais de l'inscription du message codé de ce dernier dans sa mémoire d'adresses. Cette opération s'exécute suivant les étapes suivantes:
a. Réglez le récepteur en mode écriture (WRITE).
b. Retirez la pile de l'équipement d'isolation (Fig. 2). Envoyez un message en écriture en appuyant simultanément sur les touches d'autoprotection (arrière et frontale) pendant au moins 3 secondes Vérifiez que le T72 a bien été identifié par le récepteur.
c. Réglez le récepteur en mode Normal.

Remarque: si pour une raison quelconque, il est nécessaire de renvoyer un message en écriture, appuyez simultanément sur les touches d'autoprotection (arrière et frontale) pendant au moins 3 secondes.

7. CHOIX DU LIEU D'INSTALLATION

a. Choisissez l'endroit le plus approprié pour une qualité de transmission optimale, proche du détecteur câblé concerné (détecteur commuté).
Placez l'appareil le plus haut possible.
b. Fixez provisoirement l'appareil à cet endroit à l'aide d'un adhésif double face.
c. Provoquez un signal d'alarme (en ouvrant et refermant momentanément les terminaux d'entrée), et vérifiez que le récepteur a bien reçu le signal. Si le signal d'alarme n'a pas été détecté, repositionnez le T72 et renouvelez l'opération.

8. MONTAGE FINAL

Séparez la partie arrière de l'émetteur (Fig. 3) et installez tous les éléments (Fig. 4) à leur place.
S'il y a lieu, branchez le détecteur aux terminaux d'entrée.

Remarque: La marque faite sur le boîtier en plastique de l'aimant doit se trouver face à celle du boîtier de l'émetteur (Fig. 5).

ESPAÑOL

1. DESCRIPCION GENERAL

El T72 es un transmisor supervisado para uso general, que puede conectarse a contactos magnéticos (protección de puertas y ventanas) o a otros sensores.
Funciona conjuntamente con los receptores vía radio de RISCO Group, y se alimenta con una batería estándar de litio de 3V.

CARACTERÍSTICAS PRINCIPALES

- Alcance hasta 300 m (1000 pies) en visión directa.
- Potencia RF alta / baja.
- Utiliza un código de dirección de entre 16 millones combinaciones, seleccionado de forma aleatoria.
- Diseño microprocesado.
- Larga duración de la batería.
- Totalmente supervisado.
- Estado reposo on/off.
- Tiempo de respuesta seleccionable:
  Rápido - para sensores inerciales
  Lento - para contactos magnéticos,etc.
- Entrada cableada seleccionable - N.C. o N.A.
- Tamper Posterior y de Tapa.

2. MODOS DE FUNCIONAMIENTO

NORMAL: El T72 transmite un MENSAJE DE ALARMA cuando se dispara; cuando se restaura, transmite un MENSAJE DE RESTAURACIÓN. Sólo se transmite un MENSAJE DE ALARMA dentro de un intervalo de 2,5 minutos.

Nota: Se puede generar un mensaje extra de restauración abriendo y cerrando las entradas.

ESCRITURA: Se transmite un mensajede ESCRITURA al presionar los dos tamper (posterior y delantero) durante al menos 3 segundos.

Nota: La unidad envía un mensaje de supervisión indicando el estado de la entrada y de la batería.

Nota: Al instalarlo o reemplazarlo, realice una Prueba de Comunicación con el receptor, para verificar su correcto funcionamiento.

3. INDICACIÓN DEL LED

Tras cada detección, el LED se encenderá momentáneamente. En caso de Batería Baja, el LED parpadeará durante cada transmisión.

4. CONFIGURACIÓN DE LOSINTERRUPTORES DIP

El transmisor tiene 8 interruptores DIP:

DIP	Descripción	
1	Sin usar (posición OFF)	
2	Se utiliza para desactivar el tamper posterior	
	Posición	**Tamper Posterior**
	ON	Deshabilitado (sólo funciona el tamper de tapa)
	OFF*	Habilitado (funcionan los dos tamper: tapa y posterior)
3	Transmisión de Supervisión	
	Posición	**Transmisión de Supervisión**
	ON	Cada 65 minutos
	OFF*	Cada 15 minutos
4	Se utiliza para activar el contacto magnético	
	Posición	**Interruptor de Lengüeta Interno**
	ON	Deshabilitado
	OFF*	Habilitado
5	Se utiliza para definir el modo de contacto de la entrada cableada	
	Posición	**Entrada Cableada**
	ON	Normalmente Cerrada (N.C.)
	OFF*	Normalmente Abierta (N.A.)
6	Se utiliza para establecer el tiempo de apertura	
	Posición	**Tiempo de Respuesta**
	ON	Lento: 500 ms (para contacto magnético)
	OFF*	Rápido: 10 ms (para sensores inerciales)
7	Se utiliza para determinar el estado de Reposo del detector	
	Posición	**Estado Reposo**
	ON	Habrá un intervalo de 2,5 minutos entre las transmisiones de detección de alarma (los mensajes de restauración se enviarán inmediatamente) **Nota:** En un período de 2,5 minutos sólo se transmite un mensaje de alarma
	OFF*	No hay ningún tiempo muerto entre las transmisiones de alarma (la unidad transmite después de cada detección)
8	Se utiliza para fijar la potencia RF del transmisor	
	Posición	**Potencia RF**
	ON	Potencia RF Baja (cuando el transmisor se monta cerca del receptor)
	OFF*	Potencia RF Alta

* Predeterminado de fábrica

5. RETIRAR LA TAPA DELANTERA (Fig. 1)

6. CONFIGURACIÓN DE LA COMUNICACION ENTRE TRANSMISOR Y RECEPTOR

El transmisor debe registrarse en el receptor, escribiendo su código ID en la memoria de dirección del receptor. Para ello hay que realizar los siguientes pasos:

a. Colocar el receptor en Modo Escritura.

b. Colocar la batería, sacándola de su envoltorio (Fig. 2). Enviar un mensaje de Escritura, presionando los dos tamper (posterior y delantero) durante al menos 3 segundos. Verificar que el transmisor ha sido identificado por el receptor.

c. Colocar el receptor en Modo Normal de funcionamiento.

Nota: Si por alguna razón necesita volver a enviar un mensaje de Escritura, pulsar de nuevo los dos tamper durante al menos 3 segundos.

7. SELECCIÓN DE LA UBICACIÓN DE INSTALACIÓN

a. Elegir la ubicación más adecuada para conseguir una buena calidad de comunicación, y cerca del detector cableado (en caso de estar usándolo como transmisor universal).
Colocar la unidad a la máxima altura posible.

b. Fijar temporalmente la unidad en esa ubicación mediante cinta adhesiva de doble cara.

c. Generar una señal de Alarma (abriendo o cerrando momentáneamente los terminales de entrada) y verificar que el receptor ha recibido la señal. Si la señal de alarma no es detectada, reubicar el transmisor y probar nuevamente.

8. MONTAJE FINAL

Separar la parte posterior del transmisor (Fig. 3), y montar todas las partes en sus respectivos lugares (Fig. 4).
Si es necesario, conectar el sensor a los terminales de entrada.

Nota: la marca en el lateral del imán debe colocarse enfrente de la marca en la caja del transmisor (Fig. 5).

PORTUGUÊS

1. DESCRIÇÃO GERAL

O T72 é um transmissor supervisionado para usos gerais, que pode ser conectado a contatos magnéticos (proteção de portas e janelas) ou a outros sensores.
Opera em conjunto com os receptores programáveis de RISCO Group e é alimentado por uma pilha estandarte de Lithium de 3 V.

CARACTERÍSTICAS DO T72

- Opera até 300 m (1000 pés) ao ar livre.
- Potência RF alta / baixa
- Utiliza um dos mais de 16 milhões de possíveis códigos de endereçamento pseudo aleatórios pré-seleccionados para sua configuração (não há interruptores DIP).
- Desenho microprocessado.
- Prolongada vida útil de batería.
- Totalmente supervisionado.
- Hold on/off
- Tempo seletivo de reação:
  Rápido - para sensores de impacto
  Lento - para interruptores magnéticos, etc.
- Entrada selectiva do circuito - N.C. ou N.O.
- Proteção do Tamper Posterior e Dianteiro.

2. MODOS OPERACIONAIS

NORMAL: O T72 transmite uma MENSAGEM DE ALARME quando é disparado; quando restaurado, transmite uma MENSAGEM DE RESTAURAÇÃO. Apenas uma MENSAGEM DE ALARME é transmitida durante um intervalo de 2.5minutos.

Nota: Uma mensagem extra de restauração pode ser generada reabrindo e fechando as entradas.

WRITE: Uma mensagem WRITE serátransmitida apertando ambos os botõesdo tamper (posterior e dianteiro) pelomenos durante 3 segundos.

Nota: O aparelho envia uma mensagem de supervisão indicando o estado de entrada e a condição da pilha.

Nota: Durante a instalação ou troca, faça uma Prova de Comunicação com o receptor para verificar uma operação adequada.

3. INDICAÇÕES DO LED

Depois de cada detecção,o LED se acende momentâneamente.
En caso de Pilha Fraca - o LED piscarádurante cada transmissão.

4. CONFIGURAÇÃO DO INTERRUPTOR DIP

O transmissor tem 8 interruptores DIP:

1: Não utilizado (Posição OFF)

2: Utilizado para desactivar o tamper traseiro
ON: Tamper traseiro desactivado (apenas tamper frontal activo)
OFF*: Tamper traseiro activado (tanto o tamper frontal como o traseiro se encontram activos)

3: Transmissão de Monitoração
ON: A cada 65 minutos
OFF*: A cada 15 minutos

4: Usado para determinar o interruptor de lingüeta interno
ON: Desabilitado
OFF*: Habilitado

5: Usado para determinar o modo de contato.
ON: Normalmente Fechado (NC)
OFF*: Normalmente Aberto (NO)

6: Usado para determinar o tempo de resposta.
ON: Slow-500 ms (Para operação com contatos magnéticos, etc.)
OFF*: Fast-10 ms (Para operação com sensores de impacto)

7: Usado para determinar o status HOLD do transmissor.
ON: Haverá um intervalo de 2.5 minutos entre as transmissões de detecção de alarme.
(As mensagens de restauração serão enviadas imediatamente).

Nota: Apenas uma mensagem de alarme é transmitida durante um intervalo de 2.5 minutos.

OFF*: Não há intervalo entre as detecções de alarme (a unidade transmite depois de cada detecção).

Nota: Em ambos status HOLD ocorre o seguinte:

1. Desconectar o terminal de entrada do detector envia um alarme depois de 500ms.
2. Reabrir e fechar as entradas do detector cria um alarme extra e mensagens de restauração.

8: Usado para determinar a potência de transmissão RF.
ON: baixa potência RF (quando o transmissor está perto do receptor).
OFF*: alta potência RF

* Predeterminado

5. REMOÇÃO DA TAMPA DIANTEIRA (Figura 1).

6. ESTABELECENDO A COMUNICAÇÃO TRANSMISSOR / RECEPTOR

O T72 deve identificar-se ante o receptor do sistema gravando sua mensagem codificada na memória de endereços do receptor. Este procedimento é realizado da seguinte maneira:

a.Coloque o receptor no Modo Write.

b. Remova o material isolante da pilha (Fig. 2). Mande uma mensagem Write pressionando os dois botões do tamper (posterior e dianteiro) pelo menos por 3 segundos.
Verifique se o T72 foi identificado pelo receptor.

c.Coloque o receptor no Modo Normal.

Nota: se por algum motivo é necessário retransmitir uma mensagem Write, pressione os dois botões do tamper (posterior e dianteiro) pelo menos por 3 segundos.

7. SELEÇÃO DO LOCAL DE INSTALAÇÃO

a. Escolha um local adequado para conseguir uma alta qualidade de comunicação e perto do proposto detector com circuito (para sensor comutado).
Coloque o aparelho na máxima altura possível.

b. Fixe temporariamente o aparelho neste ponto usando cinta adesiva de dupla face.

c. Faça soar um sinal de Alarme (abrindo ou fechando momentaneamente as terminais de entrada) e verifique que o receptor tenha recebido o sinal. Se o sinal de alarme não é detectado, recoloque o T72 e tente novamente.

8. MONTAGEM FINAL

Separe a parte posterior do transmissor (Fig. 3), e coloque todas as partes em seus respectivos lugares (Fig. 4).
Se for necessário, conecte o sensor às terminais de entrada.

Nota: a marca na caixa plástica do magneto deve ser colocada em frente à marca na caixa do transmissor (Fig. 5).

SPECIFICATIONS

ELECTRICAL

Battery Type:	CR123* 3V Lithium Battery
Current Consumption:	63µA standby, 535µA operating
Frequency:	433.92 MHz
Dead Time (HOLD ON):	2.5 minutes
Supervision Transmission:	Every 15/65 minutes
Modulation Type:	ASK
Battery Life:	5 years (Depends upon usage)

PHYSICAL

Size:	81 x 35 x 32 mm (3.2 x 1.37 x 1.27 in.)

ENVIRONMENTAL

RF immunity:	According to EN50130-4
Operating temperature:	0°C to 49°C (32°F to 120°F)
Storage temperature:	-20°C to 60°C (-4°F to 140°F)

Specifications are subject to change without prior notice.
Should any questions arise please contact your supplier.

* Use only CR123A batteries:

DURACELL	DL123A
GP	CR123A
PANASONIC	CR123A
SANYO	CR123A
VARTA	CR123A
Eve Energy	CR123A

NOTE: THE LITHIUM BATTERY IS NOT USER REPLACEABLE, SERVICING AND REPLACEMENT MUST BE DONE BY A TRAINED TECHNICIAN.

RISCO Group Limited Warranty

RISCO Group and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with products not manufactured by the Seller, Seller cannot guarantee the performance of the security system which uses this product. Seller's obligation and liability under this warranty is expressly limited to repairing and replacing, at Seller's option, within a reasonable time after the date of delivery, any product not meeting the specifications. Seller makes no other warranty, expressed or implied, and makes no warranty of merchantability or of fitness for any particular purpose. In no case shall seller be liable for any mconsequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever.

Seller's obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or consequential damages or delay. Seller does not represent that its product may not be compromised or circumvented; that the product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Seller, in no event shall be liable for any direct or indirect damages or any other losses occurred due to any type of tampering, whether intentional or unintentional such as masking, painting or spraying on the lenses, mirrors or any other part of the detector. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery or fire without warning, but is not insurance or a guaranty that such event will not occur or that there will be no personal injury or property loss as a result thereof. Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, seller's maximum liability shall not exceed the purchase price of the product, which shall be complete and exclusive remedy against seller. No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty.

NOTE: This product should be tested at least once a week.

CAUTION: Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to local regulation.

FOR QUICK INSTALLATION: **DIPSWITCH SETTING PER APPLICATION**

APPLICATION /ITEM	MAGNET ONLY	MAGNET+N.C. INPUT (T.B)	MAGNET+N.O. INPUT (T.B)	N.C. INPUT (T.B)	N.O. INPUT (T.B)
DIPSWITCH 7 (1)	HOLD ON	HOLD ON	HOLD ON	HOLD ON	HOLD ON
DIPSWITCH6 (2)	ON: SLOW	ON: SLOW	ON: SLOW	ON: SLOW	ON: SLOW
DIPSWITCH 5	OFF: N.O.	ON: N.C.	OFF: N.O.	ON: N.C.	OFF: N.O.
DIPSWITCH 4	OFF	OFF	OFF	ON	ON
T.B	FREE	T.B USED	T.B USED	T.B USED	T.B USED
LOGIC (MAGNET &T.B)	MAGNET ONLY	AND (3)	AND (4)	T.B ONLY	T.B ONLY

POUR UNE INSTALLATION RAPIDE: **JUMPER INSTALLATION POUR CAHQUE APPLICATION**

APPLICATION	AIMANT SEULEMENT	AIMANT+N.C INFORMATION (T.B)	AIMANT+NO. INFORMATION (T.B)	N.C. INFORMATION (T.B)	NO. Information (T.B)
DIPSWITCH 7 (1)	IN (HOLD-ON)	IN (HOLD-ON)	IN (HOLD-ON)	IN (HOLD-ON)	IN (HOLD-ON)
DIPSWITCH6 (2)	LENTEMENT	LENTEMENT	LENTEMENT	LENTEMENT	LENTEMENT
DIPSWITCH 5	NO.	N.C.	N.C.	NO.	NO.
DIPSWITCH 4	OUVERT-(EXTERIEUR)	OUVERT-(EXTERIEUR)	OUVERT-(EXTERIEUR)	FERME- (INTERIEUR)	FERME- (INTERIEUR)
T.B	LIBREMENT	UTILISATION T.B	UTILISATION T.B	Utilisation T.B	Utilisation T.B
LOGIC (EMANT & T.B)	AIMANT SEULEMENT	ET (3)	ET (4)	T.B SEULEMENT	T.B SEULEMENT

PARA UNA INSTALACION RAPIDA:

APLICACIÓN / DIP	SÓLO CONTACTO MAGNÉTICO	CONTACTO MAGNÉTICO + ENTRADA N.C. (T.B)	CONTACTO MAGNÉTICO + ENTRADA N.A. (T.B)	ENTRADA N.C. (T.B)	ENTRADA N.A. (T.B)
DIP 7 (1)	ON (REPOSO)	ON (REPOSO)	ON (REPOSO)	ON (REPOSO)	ON (REPOSO)
DIP 6 (2)	ON (LENTO)	ON (LENTO)	ON (LENTO)	ON (LENTO)	ON (LENTO)
DIP 5	OFF (N.A.)	ON (N.C.)	OFF (N.A.)	ON (N.C.)	OFF (N.A.)
DIP 4	OFF	OFF	OFF	ON	ON
T.B	LIBRE	T.B UTILIZADA	T.B UTILIZADA	T.B UTILIZADA	T.B UTILIZADA
LÓGICA (MAGNÉTICO Y T.B)	SÓLO MAGNÉTICO	AND (Y) (3)	AND (Y) (4)	SÓLO T.B	SÓLO T.B

PARA UMA RÁPIDA INSTALAÇÃO: **AJUSTE DOS JUMPERS POR APLICAÇÃO**

APLICAÇÃO / ITEM	SOMENTE MAGNETO	MAGNETO + ENTRADA N. C. (T.B)	MAGNETO + ENTRADA N. O. (T.B)	ENTRADA N. C. (T.B)	ENTRADA N. O. (T.B)
DIPSWITCH 7 (1)	IN (HOLD- ON)	IN (HOLD- ON)	IN (HOLD- ON)	IN (HOLD- ON)	IN (HOLD- ON)
DIPSWITCH6 (2)	OUT (LENTO)	OUT (LENTO)	OUT (LENTO)	OUT (LENTO)	OUT (LENTO)
DIPSWITCH 5	OUT (NO.)	IN (N. C.)	OUT (NO.)	IN (N. C.)	OUT (NO.)
DIPSWITCH 4	OUT (ABERTO)	OUT (ABERTO)	OUT (ABERTO)	IN (FECHADO)	IN (FECHADO)
T.B	LIVRE	T.B USADO	T.B USADO	T.B USADO	T.B USADO
LOGICA (MAGNETO & T.B)	SOMENTE MAGNETO	Y (3)	Y (4)	SOMENTE T.B	SOMENTE T.B

ENGLISH

1. HOLDON means 2.5 minutes dead time, in HOLDOFF there is no dead time.
2. In case of using fast respond shock sensor, choose FAST (Dipswitch 6).
3. Only if the magnet is closed and the external input (T.B) is closed, the unit will send restore. Otherwise the unit is in open (alarm) state.
4. Only if the magnet is closed and the external input (T.B) is open, the unit will send restore.
   Otherwise the unit is in open (alarm) state.

FRANÇAIS

1. «Maintenu» (= HOLD ON) signifie 2min.30 de temps mort, par opposition à HOLD OFF où il n'y a pas de temps mort.
2. Si vous utilisez un détecteur de chocs à réaction rapide, sélectionnez l'option «rapide» (FAST) (Dipswitch 6).
3. Ce n'est que si l'aimant est fermé et que l'entrée externe (T.B) est fermée que l'appareil enverra un message de remise en service. Sinon, il reste en position (d'alarme).
4. Ce n'est que si l'aimant est fermé et que l'entrée externe (T.B) est ouverte que l'appareil enverra un message de remise en service. Sinon, il reste en position (d'alarme).

ESPAÑOL

1. REPOSO significa 2,5 minutos de tiempo muerto entre transmisiones de alarma para ahorrar batería.
   En la posición OFF no hay tiempos muertos.
2. En caso de utilizar detectores inerciales de respuesta rápida, poner el DIP 6 en posición OFF (RÁPIDO).
3. La unidad mandará la señal de restauración sólo si el magnético está cerrado y la entrada externa (T.B) está cerrada. De lo contrario la unidad está abierta (Alarma).
4. La unidad mandará la señal de restauración sólo si el magnético está cerrado y la entrada externa (T.B) está abierta. De lo contrario la unidad está abierta (Alarma).

PORTUGUÊS

1. HOLD ON significa 2.5 minutos de intervalo, en HOLD OFF no hay intervalo.
2. En caso de usar reacción rápida para sensores de vibraciones, elija FAST (Dipswitch 6).
3. Solo si el magnético está cerrado y las entradas Externas (T.B) están cerradas la unidad mandará la señal de restauración.
4. Solo si el magnético está cerrado y la entrada externa (T.B) está abierta la unidad mandará la señal de restauración.
   Si no, la unidad está abierta (alarma).